# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SFUND RECORDS CTR 1851-03605

DATE:

MAY 2 2 1985

SUBJECT: Review of Analytical Data

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AR0084

FROM: Harold Takenaka, Chief

Laboratory Support Section, Environmental Services Branch, OPM (P-3-1)

TO: Paula Bisson, Acting Chief

State Programs Section, Superfund Programs Branch, TWMD (T-4-1)

Attached are comments resulting from Region 9 review of the following analytical data:

SITE: San Gabriel, CA CASE/SAS NO.: 3912/1528Y

LABORATORY: California Analytical

ANALYSIS: Selenium, hydrazine, perchlorate

SAMPLE NO.: 1528Y-5 thru 8; 1528Y-15,16,18 thru 20;

and 1528Y-26 thru 30.

COLLECTION DATE: 2/12; 3/7; and 3/15/85

REVIEWER: F. Schuette

TELEPHONE NUMBER: FTS 454-0923

(415) 974-0923

If there are any questions, please contact the reviewer.

Attachment

cc: Kathleen Shimmin, (T-3)

Duane Geuder, QA Officer, EPA-HQ (WH-548A)

Data Audit Team (LEMSCO), EMSL-LV

## REPORT ON THE EVALUATION OF THE

CASE NO. 3912/1528Y

SAN GABRIEL, CA

DATA

by

DATA MANAGEMENT TEAM

LABORATORY SUPPORT SECTION

ENVIRONMENTAL SERVICES BRANCH

U.S. ENVIRONMENTAL PROTECTION AGENCY 215 Fremont Street San Francisco, California 94105

May 20, 1985

Date

Reviewer

FTS Tel. No. 454-0923

Commercial Tel.(415) 974-0923

Lab: California Analytical

Date of this Report: May 20, 1985

Reviewer: F. Schuette

## CONTENTS OF THIS REPORT

This report covers the following three data packages.

- 1) Samples 1528Y-5 through 1528Y-8;
- 2) Samples 1528Y-15, 1528Y-16, and 1528Y-18 through 1528Y-20; and
- 3) Samples 1528Y-26 through 1528Y-30.

Lab: California Analytical

Date of this Report: May 20, 1985

Reviewer: F. Schuette

## I. INTRODUCTION

A. Four water samples, numbers 1528Y-5 through 1528Y-8, were submitted for the analyses of selenium, hydrazine, and perchlorate.

## II. VALIDITY

- A. Results reported for selenium in all samples are considered to be usable for limited purposes due to accuracy problems, as described below in Section III.A. Selenium may in fact be less than the detection limit, as reported, or the reported levels may underestimate the actual levels in the environmental samples because of poor analytical recovery of selenium.
- B. Results reported for hydrazine in all samples are considered to be valid for all purposes.
- C. Results reported for perchlorate in all samples are considered to be invalid for all purposes due to probable contamination, as described below in Section III.B. Although an objective evaluation indicates the perchlorate results to be invalid, the presence of perchlorate in the samples of other data packages in this Case suggests that perchlorate may actually be present in the environmental samples of this data package.

#### III. GENERAL COMMENTS

A. Accuracy, as measured by percent recoveries of analytes in matrix spike samples, meets criteria of 75-125%, except for the following:

| Number  | Analyte | <pre>% Recovery</pre> |
|---------|---------|-----------------------|
| 1528Y-6 | Se      | 0                     |

- B. Perchlorate was measured in the field blank sample 1528Y-8 at 0.82 ppm, which is at a level equal to, or greater than, the perchlorate measured in the other three environmental samples. Therefore, the perchlorate results are considered unacceptable due to probable contamination.
- C. All other quality control criteria are met and are considered acceptable.

| Case No. Site Lah Type of A Units of Date Samp Date Data Date of t Peviewer | Package<br>his Repo | Rec'd            | at Region $5/20/$                    | $\frac{14+1}{2009}$ | ne, Perc<br>5<br>85<br>15/14        | hlorate<br>185 | Pesti       | ile Org<br>ile Org<br>xtracti<br>xtracti<br>nalysis<br>cide Ex | anics,<br>anics,<br>on, Wat<br>on, Soi<br>tractio<br>tractio | Soil<br>er                                       |          | 10 days 5 days 10 days 40 days 5 days 10 days 10 days 10 days 11 days 12 days 13 days 14 days 15 days 16 days 17 days 18 days 19 days 10 days |       |        |                                                  |              |                  |              | NICS Contract Actual Page of pages    |              |                                                  |              |             |          |                |   |
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| -                                                                           | Selen               |                  | 1                                    | nzine               | Perch                               | Innto          |             |                                                                | ĺ                                                            |                                                  | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | <del> </del>                                     | <del></del>  | ļ                |              |                                       | ·r           |                                                  |              |             |          |                | · |
| Sample #                                                                    | J                   |                  | 119001                               |                     | 10,07                               | 01012          |             |                                                                |                                                              |                                                  | 1        | Τ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |                                                  |              | ļ                |              |                                       | ļ            | <u> </u>                                         |              |             |          |                |   |
| 15287-54                                                                    | 4.2u                | P                | 14                                   | V                   | 0.18                                | X              |             |                                                                |                                                              | 1                                                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  |              | <u> </u>         | ļ            |                                       | <u> </u>     | <u> </u>                                         |              |             |          | <del>,</del> - |   |
| 1528Y-6                                                                     | 4.24                |                  | 14                                   |                     | 0.85                                |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | <del></del>                                      | ļ            | <b></b>          | ļ            |                                       | <del> </del> | ļ                                                |              | <del></del> | <u> </u> |                |   |
| 152847                                                                      | 4.2u                |                  | 14                                   |                     | 0.17                                |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  | <del> </del> | <u> </u>         |              |                                       | -            | <del> </del>                                     |              |             |          |                |   |
| 1528Y-8 G                                                                   | 4.2u                | <u> </u>         | iu                                   | <u> </u>            | 982                                 | $\downarrow$   |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | -                                                |              |                  | <del> </del> |                                       |              | -                                                |              |             |          |                |   |
| 1528y-8 2<br>2 Units of                                                     | µg/L                | ,                | ppm                                  |                     | ppm                                 |                |             |                                                                |                                                              | <u> </u>                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  | <del> </del> |                  |              |                                       | -            | -                                                |              |             |          |                |   |
| Detection                                                                   |                     |                  |                                      |                     |                                     |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  | -            |                  | <del> </del> |                                       | -            | -                                                |              |             |          |                |   |
| Limits                                                                      | 4,2                 |                  | 1                                    |                     | 0.02                                |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | <del></del>                                      | <del> </del> | <del> </del>     |              |                                       | <del> </del> |                                                  |              |             |          |                |   |
|                                                                             |                     |                  |                                      |                     |                                     |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | -                                                | <del> </del> | <del> </del>     |              |                                       | <del> </del> | <del> </del>                                     |              |             |          |                |   |
|                                                                             |                     |                  |                                      |                     |                                     |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | <del> </del>                                     |              | <del> </del>     |              | <del></del>                           | <del> </del> | <del> </del>                                     |              |             |          |                |   |
|                                                                             | ļ                   |                  |                                      | ····                |                                     |                |             |                                                                |                                                              | ļ                                                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | <del>                                     </del> | <del> </del> | <del> </del>     |              |                                       | <del> </del> | <del> </del>                                     | <del> </del> | -           |          |                |   |
|                                                                             | ļ                   |                  |                                      |                     |                                     |                |             |                                                                |                                                              |                                                  |          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |        | +                                                |              |                  |              | <del>~</del>                          |              | <u> </u>                                         |              |             |          |                |   |
|                                                                             |                     |                  |                                      |                     |                                     |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | 1                                                | 1            |                  |              | · · · · · · · · · · · · · · · · · · · | 1            | <del>                                     </del> |              |             |          |                |   |
|                                                                             | -                   |                  |                                      |                     |                                     |                |             |                                                                |                                                              | -                                                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ,     |        |                                                  |              |                  |              |                                       |              |                                                  |              |             |          |                |   |
|                                                                             | <del> </del>        |                  |                                      |                     |                                     |                |             |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        | 1 .                                              |              | -                | -            |                                       |              |                                                  |              |             |          |                |   |
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|                                                                             | <del> </del>        |                  |                                      |                     |                                     |                |             |                                                                | <del></del>                                                  |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  |              |                  |              |                                       |              |                                                  |              |             |          |                |   |
|                                                                             |                     |                  |                                      |                     |                                     |                |             |                                                                |                                                              | <del>                                     </del> |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  |              |                  |              |                                       |              |                                                  |              |             |          |                |   |
|                                                                             |                     |                  |                                      |                     |                                     |                |             |                                                                |                                                              | <del>  </del>                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  |              |                  |              |                                       |              |                                                  |              |             |          |                |   |
|                                                                             |                     |                  |                                      |                     |                                     |                |             |                                                                |                                                              | <del>  </del>                                    | <u> </u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | i     |        | 1                                                |              | -                |              |                                       |              |                                                  |              |             |          |                |   |
| - (1)                                                                       | limi = Samp         | t valu<br>les 15 | e (e.g.<br>28Y-5 a                   | , 10U<br>and 15     | lyte wa<br>).<br>28Y-7 a<br>field b | re fie         | ld dup      | licate                                                         |                                                              | not dete                                         | ected;   | repor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | . wit | th the | e detec                                          | tion         | -<br>-<br>-<br>- |              | -                                     |              |                                                  |              |             |          |                |   |
|                                                                             |                     |                  | THE RESIDENCE OF THE PERSON NAMED IN |                     |                                     |                | <del></del> |                                                                |                                                              |                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |        |                                                  |              |                  |              |                                       |              |                                                  |              |             |          |                |   |

Lab: California Analytical

Date of this Report: May 20, 1985

Reviewer: F. Schuette

## I. INTRODUCTION

A. Five water samples, numbers 1528Y-15, 1528Y-16, and 1528Y-18 through 1528Y-20, were submitted for the analyses of selenium, hydrazine, and perchlorate.

## II. VALIDITY

- A. Results reported for selenium in all samples are considered to be usable for limited purposes due to accuracy problems, as described below in Section III.A.: Selenium may in fact be less than the detection limit, as reported, or the reported levels may underestimate the actual levels in the environmental samples because of poor analytical recovery of selenium.
- B. Results reported for hydrazine and perchlorate in all samples are considered to be valid for all purposes.

#### III. GENERAL COMMENTS

A. Accuracy, as measured by percent recoveries of analytes in matrix spike samples, meets criteria of 75-125%, except for the following:

| Sample<br>Number | Analyte | % Recovery |
|------------------|---------|------------|
| 1528Y-16         | Se      | 48         |

B. All other quality control criteria are met and are considered acceptable.

| HAVE BY SOUND THE CREATE SOUND THE COUNTY SOUND THE COUNT           |                     |                   |               |               |               |             | ٠.                                               | •        |              |                                                  |            |            | 1        |            |            |         |          | -       |          | •            |              |                                       | -             |        | - ~     |
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| Case No. 3912 //5287 MAXIMUM HOLDING TIMES, ORCANICS Site San Grabriel CA Volatile Organics, Water Volatile Organics, Soil Volatile Organics Volatile Organi           | د ک                 |                   |               |               |               |             |                                                  |          | •            |                                                  |            |            |          |            |            |         |          |         |          |              | •            |                                       |               |        |         |
| Units of Concentration # See Selaw Plate Samples Record 0.3 / 0.7 / 8.5 Paste Samples Rec'd at Lab 0.3 / 0.8 / 8.5 Paste Lata Package Rec'd at Region 9.05 / 14/85 Paste of this Record 0.5 / 20.8 / 8.5 Pertiever F. Schwette  Selenium Hydrazine Perchlorate  Selenium Hydrazine Perchlorate  Sample s  10 days days days days days days days days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Case No.            | 3912              | . /15         | 28Y           |               |             |                                                  | MAXIMU   | JM HOLDI     | NG TIME                                          | S, ORGANIC | 6 Contract | 100      | <u>ual</u> |            |         | G TIMES, | INORGA  | NICS Cor | tract        | Actual       | Page                                  | <u>l</u> of . | pages  | • • • • |
| Units of Concentration # See Selaw Plate Samples Record 0.3 / 0.7 / 8.5 Paste Samples Rec'd at Lab 0.3 / 0.8 / 8.5 Paste Lata Package Rec'd at Region 9.05 / 14/85 Paste of this Record 0.5 / 20.8 / 8.5 Particular F. Schwette    Selenium   Hydrazine   Perchlorate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Site                | San_              | Gab           | riel, c       | A             |             |                                                  | Volat    | tile Org     | anics, N                                         | Water      | 7 days     | 5 - Ta   | ays        |            |         |          |         | 3(       | days<br>davs | days<br>davs |                                       |               |        |         |
| Units of Concentration # See Selaw Plate Samples Record 0.3 / 0.7 / 8.5 Paste Samples Rec'd at Lab 0.3 / 0.8 / 8.5 Paste Lata Package Rec'd at Region 9.05 / 14/85 Paste of this Record 0.5 / 20.8 / 8.5 Particular F. Schwette    Selenium   Hydrazine   Perchlorate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lah                 |                   |               |               |               | * Ac.       | 1. l a #                                         | Volat    |              |                                                  |            | 10 days    | 5 1 d    | ays<br>ays |            |         |          |         | (        | mos.         | 12 days      |                                       |               |        |         |
| Selenium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Units of Co         | ncentra           | tion <b>X</b> | See be        | yarazır       | e, Feri     | -Wrorah                                          | ABN F    |              |                                                  |            |            | , L.C.   | ays        |            |         |          |         |          |              |              |                                       |               |        |         |
| Selenium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date Sample         | s Colle           | cted _        | 03/0          | 7/8           | 5           |                                                  | ABN A    | Analysis     |                                                  |            | 40 days    | 5 d      | ays        |            |         |          | enorted | is cons  | idered       | valid fo     | rall n                                | nirmoses      |        |         |
| Selenium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date Sample         | s Rec'd           | at Lal        | b <u>03/c</u> | <u>8/8</u>    | 5           | <del>-</del> -                                   | Pesti    |              |                                                  |            | 5 days     |          | ays<br>avs |            |         |          |         |          |              |              |                                       |               |        | ,       |
| Selenium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date Data P         | ackage<br>s Repor | Redid a       | st Region     | 19 <u>0</u> 5 | 2/14/8      | 35                                               | Pesti    |              |                                                  | 11, 5011   | 40 days    |          | ays        | P - Ind    | dicates | value r  | eported | is cons  | idered       | usable f     | <u>or limi</u>                        | ted pur       | poses. | •       |
| Selenium Hydrazine Perchlorate  5287-15 4.2u P I u V 0.68 V  5287-16 4.2u I u 0.38  5287-18 250 I u 0.81  5287-19 4.2u I u 0.38  5287-19 4.2u I u 0.38  5287-10 4.2u I u 0.38  5287-20 4.2u I u v 0.05u V 6-blank  Units of ug/L ppm ppm  Ppm  Ppm  Petechion 4.2 I 0.05  Imit's 4.2 I 0.05  Imit's 4.2 I 0.05  Imit's 5 chi lution of the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Peviewer F.         | Sch               | uet           | te            |               |             |                                                  |          |              | ,                                                |            | 1          |          | -          |            |         |          |         |          |              |              |                                       |               |        | •       |
| Sample = 5281-15 4.2u P   u V 0.68 V   5281-16 4.2u   lu   0.38   5254-16 1 4.2u   lu   0.38   5281-19 4.2u   lu   0.38   5281-19 4.2u   lu   0.38   5281-19 4.2u   lu   0.05u   (-blank)   0.005u   0.005u   (-blank)   0.005u   (-blank)   0.005u   (-blank)   0.005u   (-blank)   0.005u   (-blank)   0.005u   (-blank)   0.005u              | ,                   |                   |               | Hude          | 171,00        | Porch       | Invate                                           | .        |              |                                                  | 1          |            |          |            |            | _       | <u> </u> |         |          |              | <u> </u>     |                                       |               | 1      |         |
| 5287-15 4.2u P I u V 0.68 V 5287-16 4.2u I u 0.38 5287-16 25u I u 0.81 5287-19 4.2u I u 0.38 5287-19 4.2u I u 0.38 5287-20 4.2u I u 0.05u V 6-blank Units of ug/L ppm ppm Petection 4.2 I 0.05 Imits 4.2 I 0.05  X = A I to 5 cli lution of the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     | Seletin           | ULFV L        | 11901         | X 6 1 7 1 5   | leici       | l                                                |          | T            |                                                  |            |            |          |            |            |         | <u> </u> |         | ļ        |              |              |                                       |               |        |         |
| 5287-16 $4.2u$ $1u$ $0.38$ $5287-19$ $4.2u$ $1u$ $0.38$ $5287-19$ $4.2u$ $1u$ $0.38$ $5287-19$ $4.2u$ $1u$ $0.05u$               | l                   | 4211              | D             | 1/1           | \ <u>/</u>    | 0.68        | V                                                |          |              |                                                  |            |            |          |            |            | ļ       |          |         |          |              |              |                                       |               |        |         |
| $528Y-18$ $.25u^{\frac{1}{2}}$ $1u$ $0.81$ $528Y-19^{\frac{1}{2}}$ $4.2u$ $1u$ $0.38$ $528Y-20^{\frac{1}{2}}$ $4.2u$ $1u$ $0.05u$ $0.05$ |                     | 4211              |               |               |               | •           | 1                                                |          |              |                                                  |            |            | ]        |            |            | ļ       |          |         |          |              | ĺ            |                                       |               |        |         |
| $528\frac{19^{1}}{4.2u}$   1u   0.38<br>$528\frac{19^{2}}{2.2u}$   1u   0.05u   4.2u   1u   0.05u   4.2u   1u   0.05u   4.2u   4.2  |                     |                   | =             |               |               | :           |                                                  |          |              |                                                  |            |            |          |            |            | ļ       |          |         |          |              |              |                                       | ļ             |        |         |
| 528y- $20^{\circ}$ 4.2u v 1 u v 0.05u v $\leftarrow$ blank  Units of $\mu g/L$ ppm ppm  Petection 4.2 I 0.05  X = A I to 5 clilution of the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1528V-19(1          |                   |               |               |               | 1           | <del>                                     </del> |          |              |                                                  |            |            |          |            |            |         |          |         |          |              |              |                                       |               |        |         |
| X = A 1 to 5 ch Lution of the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 520120              | 1 211             |               | . 111         |               |             | .)                                               |          | 6-blank      |                                                  |            |            |          |            |            |         |          |         |          |              |              |                                       |               |        |         |
| X = A 1 to 5 ch Lution of the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Units of            | 7.20              | Y             |               | X             |             | <u> </u>                                         | <u> </u> |              |                                                  |            |            | <u>-</u> |            |            |         | -        |         |          |              |              |                                       |               |        |         |
| X = A 1 to 5 diffution of the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | acentration         | 49/6              |               | ppm           |               | PPM         |                                                  |          | <del> </del> | 1                                                |            |            | <b>→</b> |            |            |         |          |         |          |              |              |                                       |               |        |         |
| X = A 1 to 5 diffution of the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | etection            | 1 0               |               | ,             |               | 005         |                                                  |          | <b>-</b>     |                                                  |            |            | _        | :          |            |         |          |         |          |              |              |                                       |               |        |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                   |               | +             | <u> </u>      |             |                                                  | lm n la  |              |                                                  |            |            |          |            |            |         |          |         |          |              |              |                                       |               |        |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <del>* - A   </del> | Lo C              | ) CIT         | 1110          | n o           | + Lne       | e sc                                             | ALLIBIE  |              |                                                  |            |            |          |            |            |         |          |         |          |              |              |                                       |               |        |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                   |               |               |               |             |                                                  |          |              |                                                  |            |            |          |            |            | -       |          |         | -        |              |              |                                       |               |        |         |
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| A with the detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                   |               |               |               | <b>!</b>    |                                                  | -        | <del></del>  | <del>- </del>                                    | +          |            |          | /i+b       | the dota   | ation   | 1        |         |          |              |              | · · · · · · · · · · · · · · · · · · · |               |        |         |
| U = Indicates that the analyte was analyzed for but was not detected; repo 1 with the detection limit value (e.g., 10U).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | U :                 | = Indi            | cates         | that t        | the and       | alyte v     | was an                                           | alyzed   | for b        | ut was                                           | not dete   | cted; rep  | o , w    | - 1. CII   | cire de le | CCTOII  |          |         |          |              |              |                                       |               |        |         |
| - (1) = Samples 1528Y-16 and 1528Y-19 are field duplicate samples.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     | = Samp            | les l         | 528Y-16       | and           | 1528Y-1     | 19 are                                           | field    | dupli        | cate sa                                          | amples.    |            |          |            |            |         |          |         |          |              |              |                                       |               |        |         |
| (2) = Sample 1528Y-20 is the field blank sample.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (2)                 | = Samp            | ole 15        | 28Y-20        | is the        | e field     | d blan                                           | k samp   | le.          |                                                  |            |            | 1        |            |            |         |          |         |          |              |              | , <u></u>                             |               |        |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                   |               |               |               |             |                                                  |          |              |                                                  |            |            |          |            |            |         | _        |         |          |              |              |                                       |               |        |         |
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Lab: California Analytical

Date of this Report: May 20, 1985

Reviewer: F. Schuette

## I. INTRODUCTION

A. Five water samples, numbers 1528Y-26 through 1528Y-30, were submitted for the analyses of selenium, hydrazine, and perchlorate.

## II. VALIDITY

- A. Results reported for selenium in all samples are considered to be usable for limited purposes due to accuracy problems, as described below in Section III.A. Selenium may in fact be less than the detection limit, as reported, or the reported levels may underestimate the actual levels in the environmental samples because of poor analytical recovery of selenium.
- B. Results reported for hydrazine in all samples are considered to be valid for all purposes.
- C. Results reported for perchlorate are considered to be usable for limited purposes due to probable contamination as described below in Section III.B.

## III. GENERAL COMMENTS

A. Accuracy, as measured by percent recoveries of analytes in matrix spike samples, meets criteria of 75-125%, except for the following:

| Sample<br>Number | Analyte | % Recovery |
|------------------|---------|------------|
| 1528Y-27         | Se      | 30         |

- B. Perchlorate was measured in the field blank sample 1528Y-29 at 0.42 ppm, which is at a level of approximately one-half to one-fifth the perchlorate levels measured in the environmental samples. Therefore, the perchlorate levels in these samples appear, in part, to be due to probable contamination.
- C. All other quality control criteria are met and are considered acceptable.

| Case No. 3912/15287  Site San Gabriel (A  Lab CAL  Tyre of Analysis Selenium, Hudazine, Perchlorate  Units of Concentration X See below  Date Samples Collected 03/14/85  Date Samples Rec'd at Lab 03/15/85  Date Data Package Rec'd at Region 9 05/14/85  Date of this Peport 05/20/85  Peviewer F. Schue Lte  Selenium Hydrazine Perchlorate | ABN Analysis Pesticide Extraction, Water Pesticide Extraction, Soil Pesticide Analysis | Contract 7 days 10 days 5 days 10 days 40 days 5 days 10 days 40 days | Ctual   MAXIMUM HOLDING TIMES, INORGANICS Contract   Actual   Page   of   pages |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|-------|
| Sample #                                                                                                                                                                                                                                                                                                                                        |                                                                                        |                                                                       |                                                                                 |       |
| 1528Y-26 4.24 P 14 V 1.8 P                                                                                                                                                                                                                                                                                                                      |                                                                                        |                                                                       |                                                                                 | :     |
| 1528Y-27 4.2u   u   1                                                                                                                                                                                                                                                                                                                           |                                                                                        |                                                                       |                                                                                 | .*    |
| 1528y-28 25u u 2,2                                                                                                                                                                                                                                                                                                                              |                                                                                        |                                                                       |                                                                                 | _     |
| 1528y-29 <sup>(2)</sup> 4.2u   1                                                                                                                                                                                                                                                                                                                |                                                                                        |                                                                       |                                                                                 | _11   |
| 1528Y-30 25U V 1 U V 1.8 V                                                                                                                                                                                                                                                                                                                      |                                                                                        |                                                                       |                                                                                 |       |
| 15287-30 25ut V 1 U V 1.8 V 2011ts of 2011tration ug/L ppm ppm                                                                                                                                                                                                                                                                                  |                                                                                        |                                                                       |                                                                                 | _     |
| Ansentration Mq/5                                                                                                                                                                                                                                                                                                                               |                                                                                        |                                                                       |                                                                                 | . [   |
| Detection 4.2 1 0.02                                                                                                                                                                                                                                                                                                                            |                                                                                        |                                                                       |                                                                                 | _}_   |
| * = A 1 to 5 dilution of the s                                                                                                                                                                                                                                                                                                                  | ample                                                                                  |                                                                       |                                                                                 |       |
| A - A 1 to S S to Clair of the S                                                                                                                                                                                                                                                                                                                |                                                                                        |                                                                       |                                                                                 | _     |
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|                                                                                                                                                                                                                                                                                                                                                 |                                                                                        |                                                                       |                                                                                 |       |
|                                                                                                                                                                                                                                                                                                                                                 |                                                                                        |                                                                       |                                                                                 | - 1   |
| U = Indicates that the analyte was anal limit value (e.g., 10U).  (1) = Samples 1528Y-26 and 1528Y-28 are f (2) = Sample 1528Y-29 is the field blank                                                                                                                                                                                            | field duplicate samples.                                                               | d, report                                                             | with the detection                                                              |       |
|                                                                                                                                                                                                                                                                                                                                                 |                                                                                        |                                                                       |                                                                                 | ~     |

# KEY TO IDENTIFICATION OF WELLS SAMPLED FOR PERCHLORATE ION AS IDENTIFIED IN DATA QUALITY ASSURANCE REVIEW REPORTS

| SAMPLE NO. | WELL OWNER                   | WELL OWNER DESIGNATION | RECORDATION NUMBER |
|------------|------------------------------|------------------------|--------------------|
| 1528Y-5    | Valley County Water District | N. Maine E.            | 1900027            |
| 1528Y 6    | Valley County Water District | Morada                 | 1900029            |
| 1528Y-7    | Duplicate of 1528Y-5         |                        |                    |
| 1528Y-8    | Field Blank                  |                        |                    |
| 1528Y-15   | City of Azusa                | #5                     | 1902537            |
| 1528Y-16   | Azusa Valley Water Company   | #4                     | 1902115            |
| 1528Y-18   | Azusa Valley Water Company   | #7                     | 1902425            |
| 1528Y-19   | Duplicate of 1528Y-16        |                        |                    |
| 1528Y-20   | Field Blank                  |                        |                    |
| 1528Y-26   | City of Glendora             | #3G                    | 1901525            |
| 1528Y-27   | City of Glendora             | #7G                    | 1900831            |
| 1528Y-28   | Duplicate of 1528Y-26        |                        |                    |
| 1528Y-29   | Field Blank                  |                        |                    |
| 1528Y-30   | Azusa Valley Water Company   | #6                     | 1902117            |
| 1629Y-7    | Miller Brewing               | # 2                    | 8000076            |
| 1629Y-8    | City of Azusa                | #4                     | 1902536            |
| 1629Y-9    | Transit Mix                  | # 2                    | 1900038            |
| 1629Y-10   | County of Los Angeles        | #1SF                   | 8000070            |
| 1629Y-11   | Duplicate of 1629Y-7         |                        |                    |
| 1629Y-12   | Field Blank                  |                        |                    |
| 1629Y-16   | Covina Irrigating Company    | Contract               | 1900881            |
| 1629Y-17   | Duplicate of 1629Y-16        |                        |                    |
| 1629Y-18   | Field Blank                  |                        |                    |
| 1629Y-22   | Valley County Water District | Lante                  | 8000060            |
| 1629Y-23   | Duplicate of 1629Y-22        |                        |                    |
| 1629Y-24   | Field Blank                  |                        |                    |